

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/ 03/36921

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 C08G8/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 C08G C09J		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97/18251 A (BORDEN INC ;PHILLIPS EARL K (US); GARWOOD ARTHUR J (US); DETLEFSEN) 22 May 1997 (1997-05-22) page 1, line 8 - line 31; claims 1,2,6,7; examples 1-13	1-3
X	EP 0 666 296 A (BORDEN INC) 9 August 1995 (1995-08-09) page 2, line 49 - line 57; claims 3,4,11,16-18,21,27; examples 1,7	1-3
<input type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the International filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 23 March 2004		Date of mailing of the International search report 02 06 2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer olde Scheper, B

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International application No.  
PCT/US 03/36921

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-3 (part)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1(part),2(part),3(part)

- a phenolic resin comprising:
- (a) a phenolic compound,
- (b) an aldehyde,
- (c) oxazolidines (c1) as curing agent

2. claims: 1(part), 2(part),3(part)

- a phenolic resin comprising:
- (a) a phenolic compound,
- (b) an aldehyde,
- (c) nitro amines (c2) as curing agent

3. claims: 1(part),2(part),3(part)

- a phenolic resin comprising:
- (a) a phenolic compound,
- (b) an aldehyde,
- (c) aminonitroalcohols (c3) as curing agent

4. claims: 1(part),2(part),3(part)

- a phenolic resin comprising:
- (a) a phenolic compound,
- (b) an aldehyde,
- (c) imines (c4) as curing agent

5. claims: 1(part),2(part),3(part)

- a phenolic resin comprising:
- (a) a phenolic compound,
- (b) an aldehyde,
- (c) hexahydropyrimidines (c5) as curing agent

6. claims: 1(part),2(part),3(part)

- a phenolic resin comprising:
- (a) a phenolic compound,
- (b) an aldehyde,
- (c) nitro alcohols (c6) as curing agent

7. claims: 1(part),2(part),3(part)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

- a phenolic resin comprising:
  - (a) a phenolic compound,
  - (b) an aldehyde,
  - (c) nitrones (c7) as curing agent

8. claims: 1(part),2(part),3(part)

- a phenolic resin comprising:
  - (a) a phenolic compound,
  - (b) an aldehyde,
  - (c) hydroxyl amines (c8) as curing agent

9. claims: 1(part),2(part),3(part)

- a phenolic resin comprising:
  - (a) a phenolic compound,
  - (b) an aldehyde,
  - (c) nitro-olefins (c9) as curing agent

10. claims: 1(part),2(part),3(part)

- a phenolic resin comprising:
  - (a) a phenolic compound,
  - (b) an aldehyde,
  - (c) nitroacetals (10) as curing agent

11. claims: 4(part),11(part)

- a curing agent selected from the oxazolidine (c1) ZT-55

12. claims: 4(part),11(part),12

- a curing agent selected from the oxazolidine (c1) CS-1135

13. claims: 4(part),11(part)

- a curing agent selected from the oxazolidine (c1) CS-1991

14. claims: 4(part),11(part)

- a curing agent selected from the oxazolidine (c1) CS-1246

15. claims: 4(part),9-10,29

- a curing agent selected from nitro amines (c2)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

16. claims: 4(part),5-8,21,27

a curing agent selected from aminonitroalcohols (c3)

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17. claim: 4(part)

a curing agent selected from imines (c4)

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18. claims: 4(part),23

a curing agent selected from hexahydropyrimidines (c5)

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19. claims: 4(part),13,19,16,19-20,26

a curing agent selected from nitro alcohols (c6)

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20. claims: 4(part),14,25

a curing agent selected from nitrones (c7)

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21. claims: 4(part),17,18,24,28

a curing agent selected from hydroxyl amines (c8)

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22. claim: 4(part)

a curing agent selected from nitro-olefins (c9)

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23. claim: 4(part)

a curing agent selected from nitroacetals (10)

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9718251 A	22-05-1997	AT 232547 T	15-02-2003
		AU 700953 B2	14-01-1999
		AU 7724396 A	05-06-1997
		CA 2236417 A1	22-05-1997
		DE 69626215 D1	20-03-2003
		DE 69626215 T2	13-11-2003
		DK 861275 T3	10-06-2003
		EP 0861275 A1	02-09-1998
		ES 2191120 T3	01-09-2003
		JP 11510850 T	21-09-1999
		NZ 323176 A	28-10-1999
		PT 861275 T	30-06-2003
		WO 9718251 A1	22-05-1997
EP 0666296 A	09-08-1995	US 6150492 A	21-11-2000
		AT 181565 T	15-07-1999
		AU 675744 B2	13-02-1997
		AU 8162194 A	17-08-1995
		CA 2118079 A1	05-08-1995
		DE 69419242 D1	29-07-1999
		DE 69419242 T2	04-11-1999
		EP 0666296 A1	09-08-1995
		NZ 270429 A	26-07-1996
		US 5684114 A	04-11-1997